

## AMENDMENTS TO THE CLAIMS

Please amend claim 1, as set forth in the listing of claims that follows, which will replace all prior versions and listings, of claims in the application:

### Listing of Claims

1. (Currently Amended)                      Apparatus for estimating the weight of an occupant of a vehicle seat supported by a floor bracket, the apparatus comprising:  
    a force sensor; and  
  
    a compliant force transfer mechanism interposed between said floor bracket and a mounting bracket of said seat, including first and second co-joined lever arms coupled to said floor bracket and said mounting bracket, where said lever arms terminate in first and second jaws that engage said force sensor, where said jaws exert a pre-load engagement force on said force sensor, and where occupant weight applied to said seat produces movement of said lever arms that increases said engagement force, whereby said force sensor produces an output signal indicative of said occupant weight,  
  
    wherein said first lever arm is rotatably coupled to said mounting bracket and said second lever arm is rigidly secured to said floor bracket, and  
    wherein said first and second lever arms are interconnected at an active joint adjacent said jaws and a passive joint that limits relative displacement therebetween.
2. (Canceled)
3. (Canceled)
4. (Canceled)

5. (Original) Apparatus for estimating the weight of an occupant of a vehicle seat supported by a floor bracket, the apparatus comprising:

a force sensor;

a compliant force transfer mechanism interposed between said floor bracket and a mounting bracket of said seat, including first and second co-joined lever arms coupled to said floor bracket and said mounting bracket, where said lever arms terminate in first and second jaws that engage said force sensor, where said jaws exert a pre-load engagement force on said force sensor, and where occupant weight applied to said seat produces movement of said lever arms that increases said engagement force, whereby said force sensor produces an output signal indicative of said occupant weight; and

overload means for limiting upward movement of said seat mounting bracket with respect to said floor bracket to prevent said seat from becoming detached from said floor bracket.

6. (Original) Apparatus for estimating the weight of an occupant of a vehicle seat supported by a floor bracket, the apparatus comprising:

a force sensor; and

a compliant force transfer mechanism interposed between said floor bracket and a mounting bracket of said seat, including first and second co-joined lever arms coupled to said floor bracket and said mounting bracket, where said lever arms terminate in first and second jaws that engage said force sensor, where said jaws exert a pre-load engagement force on said force sensor, and where occupant weight applied to said seat produces movement of said lever arms that increases said engagement force, whereby said force sensor produces an output signal indicative of said occupant weight,

wherein said seat includes a set of mounting brackets, and the apparatus includes a force sensor and compliant force transfer mechanism for each such seat mounting

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bracket, and the force sensors are co-located in pairs to facilitate electrical connections to the force sensors.